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CLAIMS

WHAT IS CLAIMED IS:

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A board mounted power connector for electrically connecting a mating
power connector to a circuit board, comprising:

an insulating shell with an outer surface and an accommodating cavity;

- a first terminal held in the insulating shell and including a contact part extending into the accommodating cavity of the insulating shell;
- a second terminal including a metal housing covering the outer surface of the insulating shell, the outer surface including an underside adapted to be soldered to the circuit board, the second terminal including a first resilient arm extending from the metal housing into the accommodating cavity of the insulating shell.
- 2. The power connector as claimed in claim 1, wherein the insulating shell further includes holes corresponding to the first resilient arm which extends into the accommodating cavity of the insulating shell through the holes.
- 3. The power connector as claimed in claim 1, wherein the first terminal further comprises a body and a leg part, the body adapted to connect to the contact part 20 and the leg part and the insulating shell including a fixing slot with the body of the first terminal fixed in the fixing slot and the leg part extending beyond the insulating shell.
- 4. The power connector as claimed in claim 3, wherein a protruding part is in the body of the first terminal, the protruding part adapted to be forced into the innerwalls of the fixing slot to fix the terminal in the housing.
 - 5. The power connector as claimed in claim 1, wherein the metal housing of the second terminal has a first opening cut from one side of the metal housing and the first resilient arm extends inwardly from the first opening in the one side of the metal housing.

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6. The power connector as claimed in claim 5, wherein the metal housing of the second terminal has a second resilient arm stamped from said side, the second resilient arm extending into the accommodating cavity of the insulating shell.

- 5 7. The power connector as claimed in claim 1, wherein the insulating shell has a flange formed at an outer edge of a front end face and the metal housing further including a front which supports the flange of the insulating shell.
- 8. The power connector as claimed in claim 1, wherein an engaging arm is formed on one side wall of the metal housing of the second terminal and an engaging member is formed on the insulating shell where the engaging arm is adapted to engage the engaging member when the second terminal is secured in a final position over the insulating shell.
- 15 9. The power connector as claimed in claim 8, wherein a third opening is cut in the one side wall of the metal housing and the engaging arm extends inward from the one side of the third opening.

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